Dario Gjorgjevski

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Education

Ss. Cyril and Methodius University 2013-09-15/2018-01-30
Computer Science and Engineering, GPA: 10.00/10.00. Bachelor's degree

Strong background in linear algebra, statistics, stochastic processes, compilers, machine learning, and cryptography. Bachelor's thesis: "Error-Correcting Codes in the Rank Metric (With Applications to Cryptography)," supervised by prof. Simona Samardjiska.

Over 40 Massive Open Online Courses on such subjects as: game theory, probabilistic graphical models, combinatorics, and programming language theory. See here for a full list of certifications.

Experience

Infinite Analytics, Inc. 2017-11-20/
Data Science/Engineering

- Scraping of clients' websites and product catalogs using Scala/Akka and Python/Scrapy.
- Dynamic upstream configuration with persistence across restarts using NGINX Plus.
- Acquisition, monitoring, and analysis of server utilization data using Python, the Elastic Stack, NGINX Plus, and Google Stackdriver.
- Behavior-driven development of a Scala/Apache Spark program to compute *customer insights* using over 2 billion facts about 50 million customers.

École polytechnique fédérale de Lausanne (LCA2) 2017-07-07/09-20
Research Internship

Worked under the supervision of Jagdish Prasad Achara and prof. Jean-Yves Le Boudec on:

- T-RECS: A Software Testbed for Multi-Agent Real-Time Control of Electric Grids. I implemented new functionality, refactored old code, and fixed bugs using Python/Mininet.
- Time series modeling of smart grid power traces at a timescale of 20 ms using approaches based on wavelets and long-range dependence — as well increasing the resolution of mean-aggregated measurements via deep-learning methods for super-resolution.

Ss. Cyril and Methodius University 2016-10/2017-02
Faculty of Computer Science and Engineering
Computer Laboratory Assistantship

Full responsibility for computer laboratory exercises and homework assignments in:

Linear Algebra	Least squares, linear codes, and low-rank approximations using Mathematica® and SageMath.
Probability and Statistics	Data visualization, Monte Carlo methods, inference, hypothesis testing, and linear regression using R.
Databases	ER modeling, relational algebra, and ANSI SQL.

École polytechnique fédérale de Lausanne (LASEC) 2016-06-15/09-15
Research Internship

Worked under the supervision of Sonia Bogos and prof. Serge Vaudenay on the *Learning With Errors* (LWE) problem. I studied and built upon state-of-the-art solving algorithms to improve their complexity.

Honors and Achievements

- Best student paper at the 14th International Conference on Informatics and Information Technologies held on April 7–9, 2017 in Hotel Bistra, Mavrovo, Macedonia.
- Scholarships to attend the 2016 and 2017 editions of the Summer School on Real-World Crypto and Privacy held in Šibenik, Croatia.
- Dean's list at the Faculty for Computer Science and Engineering throughout the entire duration of study.
- Merit-based scholarships from the Faculty of Computer Science and Engineering, the Ministry of Education and Science of Macedonia, and the Municipality of Delčevo.

Computational Skills

Programming	– Fluent in: Python, R, Java, C/C++, Bash, Mathematica®. Familiar with: Scala, SQL, Common Lisp, Emacs Lisp, Racket, Lua, Haskell, Standard ML, JavaScript.
Operating Systems	– GNU/Linux (Arch Linux and Debian).
Text Editors/IDEs	– GNU Emacs and IntelliJ IDEA.
Document Preparation	– (LA)TEX.
Version Control	– Git.
Miscellaneous	– Proficient using: the Elastic Stack (Elasticsearch, Kibana, Logstash, and Beat), Apache Spark, HDFS, Ansible, NGINX, and the Apache HTTP Server.

Publications

[1] **Dario Gjorgjevski**. "Combining LWE-Solving Algorithms." In: *Proceedings of the 14th International Conference on Informatics and Information Technologies* (Hotel Bistra, Mavrovo, Macedonia, Apr. 7–9, 2017). Ed. by Aleksandra Popovska–Mitrovikj, Biljana Tojtovska, and Kire Trivodaliev. 2017, pp. 165–170. ISBN: 978-608-4699-07-1. eprint: http://ciit.finki.ukim.mk/data/papers/CIIT2017.pdf.

[2] **Dario Gjorgjevski** and Dejan Gjorgjevikj. "Using Distributed Representations to Identify Genders and Age Groups of Twitter Users." Presented at the *15th International Conference on Informatics and Information Technologies*. 2018. To be published in conference proceedings.